

PS-1080

Unmanaged Industrial PoE+ Switch

4-Port 10/100/1000Base-T PoE/PoE+ with 2-Port Gigabit SFP Uplink



Description

The PS-1080 Industrial switch is a Power Sourcing Equipment (PSE) device specifically engineered with field-Industrial components to meet the high reliability requirements of Outdoor PoE applications, and also working on OSI Layer 2. Built in a well-protected IP-30 aluminum housing, the switch withstands operating temperatures ranging from -40°C to 75°C and operates consistently even in harsh industrial environments. Although unmanaged, the switch supports Auto MDI/MDIX and eco-friendly IEEE802.3az EEE (Energy Efficient Ethernet) to ensure an efficient industrial network while delivering all the benefits of PoE power.

PoE+ function on 4-Port 10/100/1000Base-T of the PS-1080 complies with IEEE802.3af/at standards and allows them to supply up to 30W per port for network attached powered devices such as WLAN Access Points, VoIP phones and IP surveillance cameras. Two ports gigabit SFP of the switch can be configured under daisy chain topologies offering fiber advantages of safe, reliable and long distance gigabit connectivity required for today's surveillance systems.

RoHS **CE** **FC**



Features Highlight

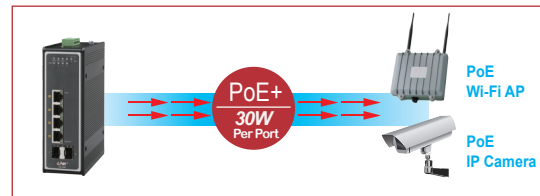
Robust Performance and Protection

Well-protected in a IP30 aluminum housing, the switch provides high level of immunity against electromagnetic and radio frequency interferences found in industrial environments. Along with it, the PS-1080 is built with various protection features such as ESD Protection, Surge Protection, Over Voltage/Current protection, Reverse Polarity Protection and Short Circuit Protection to ensure continuous operation of mission-critical applications even in unstable power conditions.



High-Power Budget for PoE Network Devices

The PS-1080 is capable of delivering power up to 30W per port to both IEEE802.3af PoE and IEEE802.3at PoE+ compliant powered devices. Thereby, powered devices located in both indoor and remote outdoor locations can be powered without installing additional power outlets or cabling and significantly reduce your CAPEX.



Future-proof Fiber Connectivity with Dual SFP Ports

With two ports gigabit SFP, the PS-1080 easily establishes fiber channel for gigabit Ethernet connectivity and allows you to take advantage of fiber BASEd daisy chain topologies. The switch provides long distance, high-speed fiber connectivity while offering enhanced noise immunity and data security across deployed systems. The PS-1080 is a well-suited robust, cost-effective and future-proof solution for fiber BASEd surveillance networks.

DIN-Rail-mounted Power Adapter (AC to DC) & Terminal Block

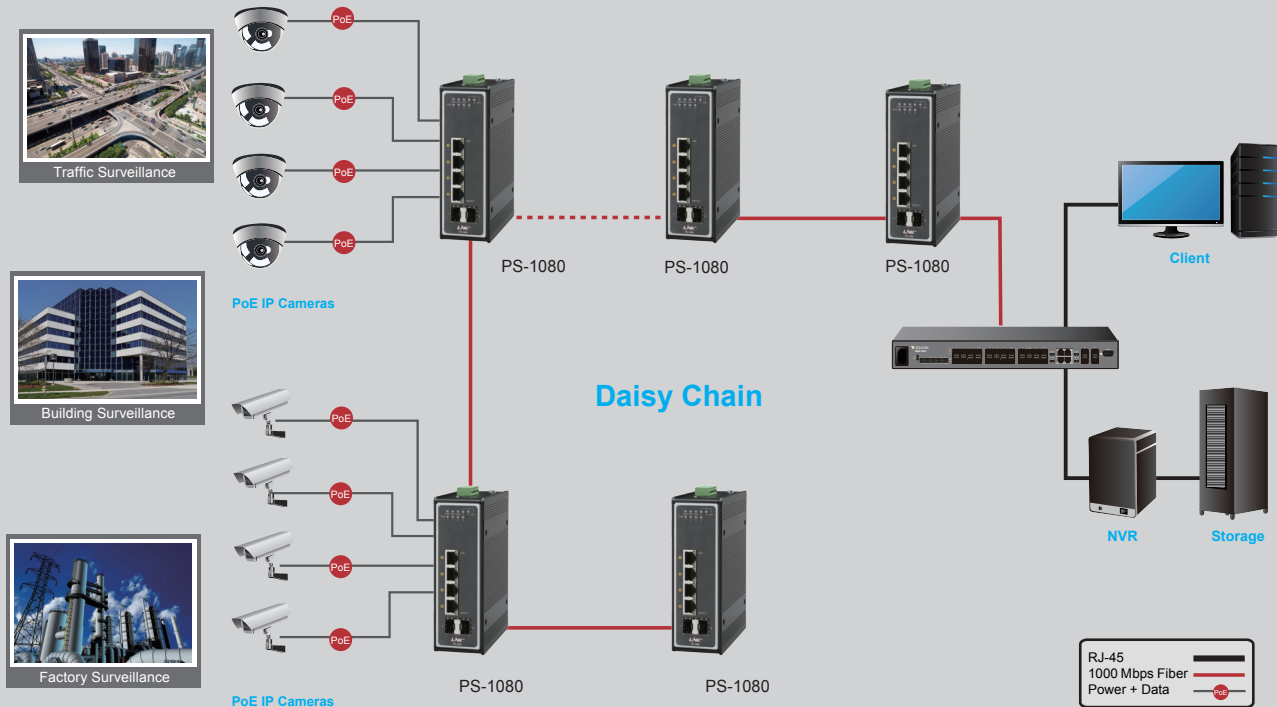
The PS-1080 is an ideal solution to prevent the failure of single power circuit, providing power redundant options to facilitate high power PoE+ usage. "DIN-Rail Power Adapter" functions as primary power source which converts AC to DC for board operation in an easy and firm installation with hardened connection, while "6-pin Terminal Block" supports primary and secondary power input. Categorized by its compact design, DIN-Rail Power Adapter can easily fit in smaller infrastructures and is extremely simple to install. Saving your time and space, this adapter can be easily DIN-Rail-mounted next to PS-1080 in surveillance applications that have little space available.

Easy Plug-and-play Operation

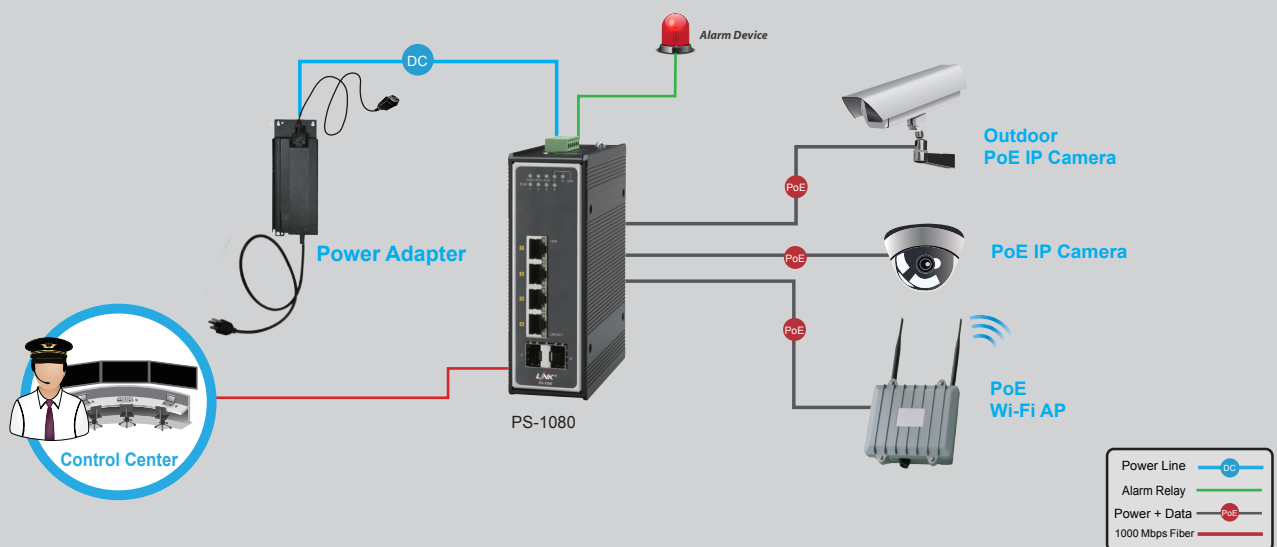
The PS-1080 is an easy-to-setup and ready-to-use solution for industrial and outdoor networks. Featuring Auto-MDI/MDIX and Auto-negotiation on all ports, the PS-1080 automatically detects and configures the best mode of operation over a link. This eliminates the need of user setup or configuration procedure and simplifies installation. The LEDs on the switch allow you to easily monitor device power/link status. In addition, the PS-1080 is designed for DIN-Rail to simplify network deployment in surveillance systems.

Surveillance Applications

The PS-1080 combines high-power PoE+, robust performance for surveillance systems in harsh industrial environments. With its small size, highly reliable and secure features ensure continuous operations in some special requirements for transportation, factory and outdoor places where wide range temperatures are present.


Applications

The PS-1080 is compatible with 10/100/1000Mbps through RJ45 transceivers to guarantee a strong, stable connection of Ethernet, Fast Ethernet or Gigabit Ethernet, providing flexible deployment options to satisfy industrial networking requirements



Specifications

Standards	
IEEE 802.3	10Base-T
IEEE 802.3u	100Base-TX
IEEE 802.3ab	1000Base-T
IEEE 802.3z	1000Base-SX/LX
IEEE 802.3x	Flow Control
IEEE 802.3af	PoE
IEEE 802.3at	PoE+
IEEE 802.3az	Energy Efficient Ethernet
Interface	
Ports	4x10/100/1000Base-T PoE/PoE+, RJ45 port 2x100Base-FX/1000Base-X, SFP port
DIP Switch	Primary/Redundant (PWR/RPS) power voltage drop alarm setting
LED Panel	PWR, RPS, ALM, PoE, 1000, LNK/ACT, SFP
Features	
Performance	Throughput: 14,880 pps to 10 Mbps ports 148,800 pps to 100 Mbps ports 1,488,000 pps to 1000 Mbps ports
	MAC table size: 8K
	Switch fabric: 12Gbps
	Jumbo Frame size: 10KBytes
	Packet buffer size: 4.1Mbit
	MTBF : 996,299 hrs. BER : <1E-12
PoE+ Functions	Up to 4 IEEE 802.3at powered devices Supports PoE Power up to 30W for each PoE port Auto detect powered device (PD) Remote Power Feeding up to 100m
Power	
Input Voltage	Primary inputs : 48V~57VDC Redundant inputs : 48V~57VDC
Power Consumption	System : 10W PoE Power Budget : 90W
Alarm Relay	One relay output, 1 A @ 24VDC
Connection	one removable 6-pin terminal block one DC-power jack
ESD protection	8KV, 15KV (contact/air)
Surge protection	6KV

Mechanical and Environment

Housing	Aluminum (IP30 Protection)
Mounting	DIN-Rail
Operating Temperature	-40°C~75°C
Storage Temperature	-40°C~85°C
Operating Humidity	10 to 95% RH (non-condensing)
Storage Humidity	5 to 95% RH (non-condensing)
Weight	730g
Dimension (WxHxD)	50 x 160 x 120 mm

Certifications

FCC	FCC Part 15 Subpart B Class A	
CE	EMI	EN 55022 : class A, EN 55011 : 2009 class A, EN 61000-6-4,
	EMS	EN 55024, EN 61000-6-2 IEC/EN 61000-4-2 (ESD) IEC/EN 61000-4-3 (RS) IEC/EN 61000-4-4 (Burst) IEC/EN 61000-4-5 (Surge) IEC/EN 61000-4-6 (CS) IEC/EN 61000-4-8 (PFMF)
Shock	IEC 60068-2-27	
Freefall	IEC 60068-2-32	
Vibration	IEC 60068-2-6	

Ordering Information

PS-1080	Unmanaged Industrial PoE+ Switch 4x10/100/1000Base-T PoE/PoE+ and 2x1G SFP port
PS-1081M	With 1000Base-SX 1.25G, Multi-mode SFP, 550m
PS-1082M	With 1000Base-SX 1.25G, Multi-mode SFP, 2km
PS-1084S	With 1000Base-LX 1.25G, Single-mode SFP, 20km

Optional Accessories

Power Adapter	90W, 52V, Industrial Grade Power Adapter (-30°C~70°C for 220V AC input)
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Note : * Specifications subject to change without notice.

Dimension
